



utility meter tamper seal

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## Patents

Patents 1 - 10 on **utility meter tamper seal**. (0.04 seconds)

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### Tamper deterrent seal providing indication of tampering for watthour meters

US Pat. 4416478 - Filed Nov 10, 1980 - General Electric Co.

In this patent, a breakable **seal** is inserted hour **meter** in accordance with the ... overcomes the aforementioned 65 conventional **utility meter** installation ...

### Tamper-resistant fastener for **utility** meters

US Pat. 4225165 - Filed Jun 19, 1979

The **tamper**-resistant device defined in claim 1 wherein the **utility meter** has a ... a **seal** ring inserted through said slots, said **seal** ring including a **seal** ...

### A-base **utility meter** cover

US Pat. 6316932 - Filed May 7, 1999 - General Electric Company

As a further **tamper** proofing measure, a loaded wire or plastic "**meter**" ... **seal** may be attached 30 to either of locking tabs 62 and 64, for example by ...

### Tamper deterrent wire seal

US Pat. 5871243 - Filed Jan 16, 1997 - American Casting & Manufacturing Corp.

**TAMPER DETERRENT WIRE SEAL BACKGROUND OF THE INVENTION** The present invention ...

One way of stealing services is by tampering with a **utility meter** which is ...

### Telephone dial-inbound data acquisition system with demand reading capability

US Pat. 5239575 - Filed Jul 9, 1991 - Schlumberger Industries, Inc.

This conductive loop, for example, may run through a closure **seal** of RDU 7 or ... **tamper** detecting loop, **tamper** with RDU 7 or its associated **utility meter**, ...

### Pilfer proofing system and method for electric **utility meter** box

US Pat. 4404521 - Filed Aug 18, 1980

In the past, those electric **utility** customers who have a proclivity to pilfer electricity have found it very easy to **tamper** with the safety **seal** (making it ...

### Security system and method for revenue class electricity **meter**

US Pat. 6000034 - Filed May 6, 1997 - Power Measurement Ltd.

To complete an installation of this type of **meter**, a **utility** metering technician affixed a metal or plastic **seal** so that the metal ring could not be removed ...

### Tamper deterrent assembly

US Pat. 4883295 - Filed Oct 9, 1987

Moreover, since this **tamper** deterrent **seal** of the Canney patent is a **seal** between housing components of the **meter** box, and not 15 a **seal** disposed over the ...

### **Utility meter** transmitter assembly for subsurface installations

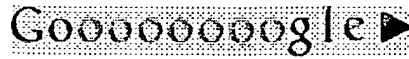
US Pat. 5877703 - Filed Aug 12, 1997 - Badger Meter, Inc.

An assembly for communication of **utility meter** signals between a **utility meter** and a ... and wherein the outer enclosure has a **seal** and wherein the inner ...

**Tamper-proof fastener**

US Pat. 4422679 - Filed Mar 25, 1982 - Boston Edison Company

1 illustrates a side view of a **utility meter** and the **tamper**-proof device. ...  
to **utility** meters is the key; that is, the **seal**- 25 a head 18 containing a ...



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### Utility meter transmitter assembly for subsurface installations

US Pat. 5877703 - Filed Aug 12, 1997 - Badger Meter, Inc.

An assembly for communication of **utility meter** signals between a **utility meter** and a ... and wherein the outer **enclosure** has a **seal** and wherein the inner ...

### TAMPER PROOF WATTHOUR METER ENCLOSURE

US Pat. 3928788 - Filed Jun 7, 1972

Therefore, it ularly to a watthour **meter enclosure** having an im- is ... with the present invention a **tamper** ble **seal** provided by the **utility** company. ...

### Tamper deterrent seal providing indication of tampering for watthour meters

US Pat. 4416478 - Filed Nov 10, 1980 - General Electric Co.

In this patent, a breakable **seal** is inserted hour **meter** in accordance with the ... overcomes the aforementioned 65 conventional **utility meter** installation ...

### Tamper-proof sealing ring for watthour meters

US Pat. 4149741 - Filed Dec 22, 1977 - Westinghouse Electric Corp.

2 and 3. extends inside or behind a **meter** mounting box **enclosure** so that ...

1 there is shown an electric **utility meter** formed ring is disclosed in US Pat. ...

### Utility meter assembly and method of use

US Pat. 5741969 - Filed Jan 14, 1997 - Brooklyn Union

Description of the Related Art T . . . . **enclosure**. **Utility** meters are used by ... showing the **meter** fully package having a **tamper-resistant seal**. enclosed ...

### Tamper deterrent assembly

US Pat. 4883295 - Filed Oct 9, 1987

Moreover, since this **tamper** deterrent **seal** of the Canney patent is a **seal** between housing components of the **meter** box, and not 15 a **seal** disposed over the ...

### Telephone dial-inbound data acquisition system with demand reading capability

US Pat. 5239575 - Filed Jul 9, 1991 - Schlumberger Industries, Inc.

This conductive loop, for example, may run through a closure **seal** of RDU 7 or a **meter** 20 register associated with registers 11, 13, or 15. If the **enclosure** ...

### Pilfer proofing system and method for electric utility meter box

US Pat. 4404521 - Filed Aug 18, 1980

In the past, those electric **utility** customers who have a proclivity to pilfer electricity have found it very easy to **tamper** with the safety **seal** (making it ...

### Tamper deterrent assembly

US Pat. 4699408 - Filed Sep 6, 1985

Moreover, since this **tamper** deterrent seal of the Canney patent is a **seal** between housing components of the **meter** box, and not a **seal** disposed over the ...

Pilfer proofing system and method for electric **utility meter** box

US Pat. 4615113 - Filed Jan 24, 1985

Moreover, instead of drilling tures 34 and 35 align and a safety **seal** (not ...  
drilling of holes in the **meter** stops themselves, **meter** and **tamper** with same ...



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## Patents

Patents 1 - 20 on **utility meter configuration tamper**. (0.04 seconds)

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### Meter monitoring and tamper protection system and method

US Pat. 6801865 - Filed Mar 21, 2002 - Engage Networks, Inc.

However, if a **utility** employee must be sent to each **meter** in order to implement the changes to the **meter's configuration** parameters, the **utility** cannot ...

### A-base utility meter cover

US Pat. 6316932 - Filed May 7, 1999 - General Electric Company

In the assembled **configuration**, base cover 12 and terminal cover 14 cooperate to ... As a further **tamper** proofing measure, a loaded wire or plastic "**meter**" ...

### Electric meter tamper detection circuit for sensing electric meter removal

US Pat. 6118269 - Filed Apr 15, 1997 - Comverge Technologies, Inc.

The present invention also relates to a modular **meter** based **utility** gateway ... **configuration**. A first resistor is electrically connected to the line-side ...

### Tamper-proof fastener

US Pat. 4422679 - Filed Mar 25, 1982 - Boston Edison Company

1 illustrates a side view of a **utility meter** and the **tamper**-proof device. ... metal annulus having a U-shaped **configuration** on its inner surface which ...

### Method of detecting tamper of an electric meter

US Pat. 6362745 - Filed May 11, 2000 - Comverge Technologies, Inc.

BACKGROUND OF THE INVENTION **Utility** meters are used for billing services ... To achieve these objects, an electric **meter tamper** detection-system for sensing ...

### Tamper-resistant fastener for utility meters

US Pat. 4225165 - Filed Jun 19, 1979

35 vide a **tamper**-resistant feature to a standard **utility** The presently disclosed fastener is mounted in the **meter** screw ring which does not require key ...

### Portable remote meter reading apparatus

US Pat. 4652855 - Filed Dec 5, 1984 - Westinghouse Electric Corp.

First, the female receptacle 82 could be provided with a **tamper**-proof converging. ... the **utility** pole to per- practical **configuration** is illustrated in FIG. ...

### Magnetic tamper detector

US Pat. 4707679 - Filed Feb 2, 1987 - Westinghouse Electric Corp.

When an electric **utility** wishes to examine the opera- command intended for another purpose but incorrectly interpreted as a field **configuration** terminal ...

### Anti-tamper fastener shielding apparatus

US Pat. 4732517 - Filed Dec 9, 1985 - Carolina Moldings, Inc.  
Preferably, for this purpose, the collar device is T<sup>A</sup> anti-**tamper** apparatus 22  
... gas **utility meter**, although as will be appreciated, the **configuration** to ...

#### Security system and method for revenue class electricity meter

US Pat. 6000034 - Filed May 6, 1997 - Power Measurement Ltd.  
To complete an installation of this type of **meter**, a **utility** metering technician  
affixed ... of programmable **meter configuration** or revenue register values. ...

#### Remote data acquisition and communication system

US Pat. 5448230 - Filed Jun 25, 1993 - Metscan, Incorporated  
The **utility meter** or other device should pro- interval. ... for usage and one  
for xhe transmitter is typically a crystal controlled tran- **tamper** or alarm. ...

#### Modular meter configuration and methodology

US Pat. 6885185 - Filed Nov 29, 1999 - Itron Electricity Metering, Inc.  
In accor- initiator circuit attachable to a **utility meter** without breaking dance  
with ... to be rendered **tamper** proof or ences on such area include US Pat. ...

#### Telephone dial-inbound data acquisition system with demand reading capability

US Pat. 5239575 - Filed Jul 9, 1991 - Schlumberger Industries, Inc.  
This makes the **tamper** detecting scheme of the present invention less likely ...  
load survey functions, accumulate pulses from a pulser type **utility meter**, ...

#### System for utility meter communications using a single RF frequency

US Pat. 5914673 - Filed May 6, 1996 - Schlumberger  
An approach which has been taken in fixed network automatic **meter** reading ...  
data and any stored **tamper** signals. expense on the part of the **utility**, ...

#### System for utility meter communications using a single RF frequency

US Pat. 5896097 - Filed Mar 6, 1996 - Schlumberger Resource Management Services, Inc.  
As will be automatic **meter** reading ("AMIR") and for Remote **Meter** which can ...  
data and any stored **tamper** signals. expense on me part of the **utility**, ...

#### Wireless area network communications module for utility meters

US Pat. 6650249 - Filed Jul 13, 2001 - Elster Electricity, LLC  
Whenever communications are lost with the **meter** 30 due to a line power outage or  
**tamper**, the module waits a programmable, predetermined length of time, ...

#### Remote automatic meter reading apparatus

US Pat. 5590179 - Filed Mar 8, 1995 - Ekstrom Industries, Inc.  
The wing nuts 109 have apertures for receiving a conventional seal wire to provide  
**tamper** indication. A 50 strain relief 105 is mounted in a snap-in fit in ...

#### Mapping interface for a distributed server to translate between dissimilar ...

US Pat. 6199068 - Filed May 21, 1998 - ABB Power T&D Company Inc.  
The exemplary hardware **configuration** assumes an initial deployment **configuration**  
with a design scope of about 10000-**meter** points. ...

#### Remote data acquisition and processing system

US Pat. 6208266 - Filed Apr 28, 1997 - Scientific Telemetry Corporation  
Each **utility meter**), and therefore, the optical device housing 802 ... 24-25.

device **tamper**/removal sensor 352. Preferably, controller 2s As shown in FIGS. ...

Lockable terminal cover for bottom connected metering devices

US Pat. 4823572 - Filed Sep 2, 1986

One 15 ing to break the seal or remove the terminal block common **meter configuration**, called a bottom con- cover. Such tampering can be less noticeable than ...



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Patents 1 - 20 on **power meter enclosure tamper**. (0.05 seconds)

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### Electric meter tamper detection circuit for sensing electric meter removal

US Pat. 6118269 - Filed Apr 15, 1997 - Comverge Technologies, Inc.

The **power meter** collar 201 couples 35 a **power meter** (not shown) of a residence or ... gateway **enclosure** according to the present invention, **tamper**- resistant ...

### Modular meter based utility gateway enclosure

US Pat. 5898387 - Filed Mar 26, 1997 - Scientific-Atlanta, Inc.

A **tamper** detection mecha- utility gateway **enclosure**. ... A media access controller for scheduling and coor- to the **power meter**, the voltage drop across the ...

### Method of detecting tamper of an electric meter

US Pat. 6362745 - Filed May 11, 2000 - Comverge Technologies, Inc.

The **power meter** collar 201 couples a **power meter** (not shown) of a residence or ... gateway **enclosure** according to the present invention, **tamper**- resistant ...

### TAMPER-PROOF ELECTRIC POWER DISTRIBUTION AND METER ENCLOSURE SYSTEM

US Pat. 3753047 - Filed Aug 20, 1971

In the preferred embodi- **enclosure** is secured to a cast aluminum base plate ...

In most ^t the **meter** is mounted within the box and the operative portions ...

### Watt-hour meter with fiber optics tamper detector

US Pat. 4571691 - Filed Feb 16, 1983 - Westinghouse Electric Corp.

Field of the Invention This invention relates to a **tamper**-resistant **enclosure** for a watt-hour **meter**, and, more particularly, to such an **enclosure** having a ...

### TAMPER PROOF WATTHOUR METER ENCLOSURE

US Pat. 3928788 - Filed Jun 7, 1972

It is relatively 45 proof watthour **meter enclosure** includes an improved simple, therefore, to remove the **meter** unit for **tamper**- locking clip arrangement at ...

### Utility meter and submetering system

US Pat. 4804957 - Filed Sep 17, 1986 - Triad Communications, Inc.

Upon primary **power** failure, the bat- Protective **enclosure** removed to reveal the ... **meter** socket. board of the invention; The **enclosure** includes a **tamper** ...

### TAMPER-PROOF TIME INTERVAL RECORDING SYSTEM

US Pat. 3855851 - Filed Oct 26, 1971

A **tamper**-proof recording device as set forth in claim 7 wherein said elapsed-time **meter** is electrically powered, said **enclosure** including an electric **power** ...

### Tamperproof external test contact arrangement for watthour meters



US Pat. 3943413 - Filed Jul 3, 1974 - Westinghouse Electric Corporation  
For normal **meter** operation, the In accordance with the present invention, a **tamper**- disconnect or potential link is positioned to externally proof watt-hour ...

#### **Tamper detection**

US Pat. 6515574 - Filed Jan 27, 1999 - Neopost Limited  
The postage **meter** includes connected to be powered by the cell 13 and ...  
voltage to **power** the **tamper** evidence circuit. As the accounting circuits in a ...

#### **Temporary power center for construction site**

US Pat. 5418683 - Filed Feb 7, 1994 - General Electric Company  
BACKGROUND OF THE INVENTION 5 BF THE^REFERRED **Power** centers in the form of an exterior **enclosure** ... , x- i\_ • ... containing an electric **power meter** ...

#### **Meter removal indicator**

US Pat. 4588949 - Filed Sep 16, 1983 - Sangamo Weston, Inc.  
5 shows another embodiment utilizing the prin- **Tamper** indicating ... 25 displayed  
in electricity **meter** can simply be the **power** being applied window 16. ...

#### **Testing operation of electric energy meter optics system**

US Pat. 5268633 - Filed Feb 27, 1992 - General Electric Company  
The **tamper** 43 positioned within the **enclosure** 45 of register assem- error ...  
respectively, **power meter** 2 is shown in simplified form, and includes 35 which ...

#### **Meter for measuring volumetric consumption of a commodity**

US Pat. 5659300 - Filed Sep 10, 1996 - Innovatec Corporation  
The antenna A common type of gas **meter** has a mechanical coupling is coupled to  
the transmitter and when the **meter** is extending from the gas **meter enclosure**. ...

#### **Wireless area network communications module for utility meters**

US Pat. 6650249 - Filed Jul 13, 2001 - Elster Electricity, LLC  
The **meter** 30 also preferably transmits a notification when **power** is restored to  
the **meter** 30. The **tamper** and damage alarms are preferably approximately ...

#### **Wide area remote telemetry**

US Pat. 6124806 - Filed Sep 11, 1998 - Williams Wireless, Inc.  
Front cover 534 is attached to the termination **enclosure** main body 522 through  
the use of cover bolts 536 which are also sealed by **tamper** resistant screw ...

#### **Advanced instrument packaging for electronic energy meter**

US Pat. 6476595 - Filed Jan 26, 2000 - ABB Automation Inc.  
In order to access the internal **power** jack 32, a **meter** reader pierces, ...  
Anti-**tamper** seal screws 22 can be provided, for example, if required by the ...

#### **Electric enclosure locking assembly**

US Pat. 4326395 - Filed Sep 4, 1979  
The cover has a peripheral or connections and particularly, to a **tamper** ...  
of the **meter** pan, and an adjustable **power** consumption **meter** with a **meter** pan or ...

#### **Multiple utility pedestal**

US Pat. 4133021 - Filed Jul 25, 1977  
Each utility company such as the gas company, electric **power** company, ...

Another protective **meter enclosure** is shown in Fisher, US Pat. No. ...

Lockable **meter** retention ring

US Pat. 4331012 - Filed Feb 19, 1980

As the cost of electricity Provide a lockable **meter** retention ring of compact and escalates, more people are tempted to **tamper** with ...



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### Electric meter tamper detection circuit for sensing electric meter removal

US Pat. 6118269 - Filed Apr 15, 1997 - Comverge Technologies, Inc.  
The **power meter** collar 201 couples 35 a **power meter** (not shown) of a residence ... gateway **enclosure** according to the present invention, **tamper**- resistant ...

### Method of detecting tamper of an electric meter

US Pat. 6362745 - Filed May 11, 2000 - Comverge Technologies, Inc.  
The **power meter** collar 201 couples a **power meter** (not shown) of a residence or ... gateway **enclosure** according to the present invention, **tamper**- resistant ...

### Utility meter and submetering system

US Pat. 4804957 - Filed Sep 17, 1986 - Triad Communications, Inc.  
Upon primary **power** failure, the bat- Protective **enclosure** removed to reveal the ... **meter** socket. board of the invention; The **enclosure** includes a **tamper** ...

### Tamper detection

US Pat. 6515574 - Filed Jan 27, 1999 - Neopost Limited  
The postage **meter** includes connected to be powered by the cell 13 and includes ... the **indication** state after removal of **power**. The maintain an accurate ...

### Testing operation of electric energy meter optics system

US Pat. 5268633 - Filed Feb 27, 1992 - General Electric Company  
The **tamper** 43 positioned within the **enclosure** 45 of register assem- error ... respectively, **power meter** 2 is shown in simplified form, and includes 35 which ...

### Utility meter reading system

US Pat. 5719564 - Filed May 10, 1996  
A typical example of a data accumulator unit 18 is identification, utility usage, and an **indication** of **tamper** in a rugged, heavy gauge **enclosure** 72 suitable ...

### Tamper deterrent seal providing indication of tampering for watt-hour meters

US Pat. 4416478 - Filed Nov 10, 1980 - General Electric Co.  
Once ment adapted to secure the **meter** and the **meter** box the **meter**, ... designed **enclosure** or box having a breakable **meter** box; Another prior art US Pat. No. ...

### Meter removal indicator

US Pat. 4588949 - Filed Sep 16, 1983 - Sangamo Weston, Inc.  
5 shows another embodiment utilizing the prin- **Tamper** indicating ... 25 displayed in electricity **meter** can simply be the **power** being applied window 16. ...

### Telephone dial-inbound data acquisition system with demand reading capability

US Pat. 5239575 - Filed Jul 9, 1991 - Schlumberger Industries, Inc.  
If the **enclosure** for RDU 7 is opened or a register associated with utility meters 11,13, or 15 is removed, the conductive loop L1, L2 will be broken. **Tamper** ...

Testing operation of electric energy **meter** optics system

US Pat. 5113130 - Filed Apr 22, 1991 - General Electric Company  
The **tamper** error signal is stored in the electronic register but is not made ...  
1 and 2, an electric energy or **power meter** 2 is shown in simplified form, ...

Watt-hour **meter** open potential circuit detecting device

US Pat. 5017877 - Filed Nov 1, 1989  
An absence of a deflection of nient **indication** to the **meter** reader employed by the the indicator could be due to an improper positioning or **power** company to ...

PUSHBUTTON **TAMPER** PROOF TAXI-METER

US Pat. 3809312 - Filed May 23, 1973  
Because shutter flaps 61 and 62 are within the **enclosure** defined by cover ...  
the **meter** control circuit to the vehicle's battery or some other **power** source. ...

Pilfer proofing system and method for electric utility **meter** box

US Pat. 4404521 - Filed Aug 18, 1980  
**Meter** box 10 is provided with a cover 16, the upper 15 edge 16U of cover 16 ...  
for the tampering) and easily gain access to the **meter** and **tamper** with same ...

Pilfer proofing system and method for electric utility **meter** box

US Pat. 4615113 - Filed Jan 24, 1985  
The moving the **meter** box from the line that is, while the lower portion of body member 51 drapes over the lower **meter** box is energized and there is **power** on ...

Engine running time indicator

US Pat. 3965669 - Filed Feb 18, 1975 - Eaton Corporation  
A need has been felt for a the generator, to high-**power** pulses of low duty ...  
and providing this rela- The present invention is a **tamper**-resistant and ...

Pilfer proofing system for electric utility **meter** box

US Pat. 4505530 - Filed Aug 25, 1983  
The contact jaws are diameter box is energized and there is **power** on the ...  
for the tampering) and easily gain access to the **meter** and **tamper** with same in ...

Method and apparatus for performing automated fraud reporting

US Pat. 6523013 - Filed Jul 24, 1998 - Neopost, Inc.  
A **power** on of the **meter** when the **meter** is not installed on a base (for a ...  
Similarly, if a dedicated **tamper** detection device is triggered, the **meter**, ...

Electric energy service apparatus with **tamper** detection

US Pat. 6844825 - Filed Sep 25, 2001 - Ekstrom Industries, Inc.  
The base 40 is snap-in connectable in the **meter** socket 30. ... such as in an **enclosure** separate from a standard watt-hour **meter** and the **meter** socket. ...

Apparatus and method to intermittently manufacture and dispense nitrogen gas ...

US Pat. 5688306 - Filed May 8, 1996  
A flow **meter** 46 ^y be for essentially separating nitrogen from other air ...

air in the apparatus and/or the module may be made **tamper** proof as described in ...

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Patents 1 - 20 on **power meter enclosure tamper protection**. (0.01 seconds)

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### Electric meter tamper detection circuit for sensing electric meter removal

US Pat. 6118269 - Filed Apr 15, 1997 - Comverge Technologies, Inc.

The **power meter** collar 201 couples 35 a **power meter** (not shown) of a residence or

... A specific embodiment of this type of **tamper protection** circuitry is ...

### Method of detecting tamper of an electric meter

US Pat. 6362745 - Filed May 11, 2000 - Comverge Technologies, Inc.

The **power meter** collar 201 couples a **power meter** (not shown) of a residence or

... A specific embodiment of this type of **tamper protection** circuitry is ...

### TAMPER-PROOF ELECTRIC POWER DISTRIBUTION AND METER ENCLOSURE SYSTEM

US Pat. 3753047 - Filed Aug 20, 1971

In the preferred embodi- **enclosure** is secured to a cast aluminum base plate hav-

Affixed to the upper ... **protection**. conjunction with the accompanying ...

### TAMPER PROOF WATTHOUR METER ENCLOSURE

US Pat. 3928788 - Filed Jun 7, 1972

It is relatively 45 proof watthour **meter enclosure** includes an improved simple, therefore, to remove the **meter** unit for **tamper**- locking clip arrangement at ...

### Utility meter and submetering system

US Pat. 4804957 - Filed Sep 17, 1986 - Triad Communications, Inc.

Upon primary **power** failure, the bat- Protective **enclosure** removed to reveal the

... **meter** socket. board of the invention; The **enclosure** includes a **tamper** ...

### Expansion module for modular meter

US Pat. 6275168 - Filed Jan 8, 1999 - Siemens Power Transmission and Distribution, LLC

For example, a **meter enclosure** may be designed to allow visual inspection of the

**meter** ... It is noted that such a **tamper protection** configuration does not, ...

### Nonvolatile memory protection arrangement for electronic postage meter ...

US Pat. 4805109 - Filed Oct 16, 1985 - Pitney Bowes Inc.

The term postage **meter** also includes other like devices which provide unit value

... mechanism are physically sealed within a **tamper** resistant **enclosure**. ...

### Thermal protection apparatus for a secure electronic appliance, in ...

US Pat. 5659454 - Filed Nov 30, 1994 - Neopost Industrie

To enable the **meter** to operate again, it A SECURE ELECTRONIC APPLIANCE, ...

able **tamper**-proof sealing. using commercially-available electronic components, ...

### Lockable meter retention ring

US Pat. 4331012 - Filed Feb 19, 1980

Therefore, the prior art de- ring, and more particularly to a **meter** retention ring  
... **meter** bases. inadequate **protection** against theft of electric **power** . ...

A-base revenue **meter** with **power** quality features

US Pat. 6493644 - Filed Aug 9, 1999 - Power Measurement Ltd.

The switchboard **enclosure** 505 usually features a cover 525 20 with a ... and that  
other methods of **tamper** detection and environmental **protection** are well ...

Electronic postage **meter** system having arrangement for rapid storage of ...

US Pat. 4845632 - Filed Oct 16, 1985 - Pitney Bowes Inc.

The accounting circuits and associated postage printing mechanism are physically  
sealed within a **tamper** resistant **enclosure**. The non-volatile memories are ...

Electronic postage **meter** operating system

US Pat. 4817004 - Filed Oct 16, 1985 - Pitney Bowes Inc.

22, 1984, for NONVOLATILE MEMORY SYSTEM WITH REAL TIME AND **POWER** DOWN DATA STORAGE  
CAPABILITY FOR AN ELECTRONIC POSTAGE **METER**, where dual nonvolatile ...

Revenue **meter** with **power** quality features

US Pat. 6615147 - Filed Aug 9, 1999 - Power Measurement Ltd.

The switchboard **enclosure** 505 usually features a cover 525 with a ... methods of  
**tamper** detection and environmental **protection** are well known in the art. ...

Wide area remote telemetry

US Pat. 6124806 - Filed Sep 11, 1998 - Williams Wireless, Inc.

For gas meters, a sensor interface module 102 will monitor rotation of the dials  
of the **meter** display. The small **enclosure** or casing 210 of the sensor ...

Video gaming system with pool prize structures

US Pat. 4652998 - Filed Jan 4, 1984 - Bally Manufacturing Corporation

3) through conventional input **protection** circuitry 146 to a standard RS232 ...  
is enclosed in its own **tamper** resistant **enclosure** with sensors 163 attached ...

Wide area remote telemetry

US Pat. 6366217 - Filed Aug 16, 1999 - Internet Telemetry Corp.

For gas meters, a sensor interface module 102 will monitor rotation of the dials  
of the **meter** display. The small **enclosure** or casing 210 of the sensor ...

Illusion of skill game machine for a gaming system

US Pat. 4582324 - Filed Jan 4, 1984 - Bally Manufacturing Corporation

3) through conventional input **protection** circuitry 146 to a standard RS232 ...  
is enclosed in its own **tamper** resistant **enclosure** with sensors 163 attached ...

Postage metering system

US Pat. 6424954 - Filed Feb 16, 1999 - Neopost Inc.

A postage **meter** allows a user to print postage or other indicia of value on ...  
The **tamper** evident **enclosure** houses the processor and other security ...

Apparatus for purification of water-based fluids in closed-loop flow systems

US Pat. 5543040 - Filed Dec 12, 1994 - FI-Tek Purification Systems, Inc.

**Power** Input: Output to Electrodes: Indicators: Voltage Metering: Current Metering

Enclosure Electronic Function Summary 120/240 vac 50/60 Hz lamp max at 120 ...

Battery assembly

US Pat. 6111519 - Filed Feb 25, 1999 - Badger Meter, Inc.

45 assemblies, provided that power requirements for the tran- Inside the inner enclosure 40 in FIG. 2 is a transponder printed circuit board (PCB) 90 in ...



Result Page: 1 2 Next

power meter enclosure tamper protection

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utility meter enclosure tamper indication

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## Patents

Patents 1 - 15 on **utility meter enclosure tamper indication**. (0.02 seconds)

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### Utility meter and submetering system

US Pat. 4804957 - Filed Sep 17, 1986 - Triad Communications, Inc.

The individual **utility meter**- communication means is coupled to the processor for ... **meter** socket. board of the invention; The **enclosure** includes a **tamper** ...

### Electric meter tamper detection circuit for sensing electric meter removal

US Pat. 6118269 - Filed Apr 15, 1997 - Comverge Technologies, Inc.

In general, the master should check DOUT for a slave busy **indication** before ...

The modular **meter**-based **utility** gateway **enclosure** according to the present ...

### Method of detecting tamper of an electric meter

US Pat. 6362745 - Filed May 11, 2000 - Comverge Technologies, Inc.

In general, the master should check DOUT for a slave busy **indication** before ...

The modular **meter**-based **utility** gateway **enclosure** according to the present ...

### Tamper deterrent seal providing indication of tampering for watthour meters

US Pat. 4416478 - Filed Nov 10, 1980 - General Electric Co.

1, which illustrates a The present invention overcomes the aforementioned 65 conventional **utility meter** installation shown generally necessity and expense ...

### Telephone dial-inbound data acquisition system with demand reading capability

US Pat. 5239575 - Filed Jul 9, 1991 - Schlumberger Industries, Inc.

If the **enclosure** for RDU 7 is opened or a register associated with **utility** meters 11,13, or 15 is removed, the conductive loop LI, L2 will be broken. **Tamper** ...

### Utility meter reading system

US Pat. 5719564 - Filed May 10, 1996

A typical example of a data accumulator unit 18 is identification, **utility** usage, and an **indication** of **tamper** in a rugged, heavy gauge **enclosure** 72 suitable ...

### Utility meter assembly and method of use

US Pat. 5741969 - Filed Jan 14, 1997 - Brooklyn Union

Description of the Related Art T . . . . **enclosure**. **Utility** meters are used by ... showing the **meter** fully package having a **tamper**-resistant seal. enclosed ...

### Tamper deterrent assembly

US Pat. 4883295 - Filed Oct 9, 1987

For example, **utility** meters are normally readable without access to the interior ... that the **meter** box be specifically constructed for use with the **tamper** ...

### Pilfer proofing system and method for electric utility meter box

US Pat. 4404521 - Filed Aug 18, 1980

In the past, those electric **utility** customers who have a proclivity to pilfer electricity have found it very easy to **tamper** with the safety seal (making it ...

#### **Tamper deterrent assembly**

US Pat. 4699408 - Filed Sep 6, 1985

Although various other forms of protection for **utility** meters, ... a **tamper** deterrent seal providing an **indication** of tampering for watt hour meters is ...

#### **Pilfer proofing system and method for electric utility meter box**

US Pat. 4615113 - Filed Jan 24, 1985

Es- rior of-the unit and is the load side of the **meter**, and sentially all ...  
drilling of holes in the **meter** stops themselves, **meter** and **tamper** with same in ...

#### **Pilfer proofing system for electric utility meter box**

US Pat. 4505530 - Filed Aug 25, 1983

Moreover, instead of drilling a proclivity to pilfer electricity have found it very easy holes in the **meter** stop 26, 27 flanges, the end of the to **tamper** ...

#### **Sensing switch for a magnetically coupled communications port**

US Pat. 4491792 - Filed Dec 13, 1982 - General Electric Company

25 conductive material, is mounted in the first coupler ters is normally done by a **utility** company **meter** reader Phoned substantially flush with the face ...

#### **Tamperproof water meter**

US Pat. 4663970 - Filed Sep 3, 1985 - Rockwell International Corporation

2U .. .?.. f, .. , sure for completely enclosing the **meter**, the **enclosure** tak"" al^n& the lmes 3B~3f of FIG," 3' .. being sealed shut and being of a type ...

#### **Watthour meter open potential circuit detecting device**

US Pat. 5017877 - Filed Nov 1, 1989

An absence of a deflection of nient **indication** to the **meter** reader ... power company to reveal the **meter** defect or **tamper**- orientation of the device and not ...

utility meter enclosure tamper indication

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